

**WELCOME**



# ***U.S. Department of Energy's Office of Science***

## **State of the DOE Atmospheric Science Program**



FY 2008 ASP Science Team Meeting  
February 25-28, 2008  
Annapolis, MD

**Ashley Williamson**

*February 25, 2008*



# What I'll really talk about

- *Some DOE HQ news*
- *New investigators and projects*
- *New opportunities*
- *Some thoughts and requests*



# DOE HQ news: new BER AD!

Effective 3/5/2008:

Dr. Anna Palmisano has been appointed the  
Associate Director of Science for Biological  
and Environmental Research

Dr. Jerry Elwood resumes his duties as Head of  
(only!) the Climate Change Research Division



# Distribution of Awards



Laboratory Studies – 2 New, 5 Renew

Field Studies – 1 New, 2 Renew

Modeling – 2 New, 1 Renew

Measurement/Instrument Development – 1 Renew



# New investigators



“Optical Properties of Moderately-Absorbing Organic and Mixed Organic/Inorganic Particles at Very High Humidities” – Tami Bond, UIUC

“Laboratory Studies of the Reactive Chemistry and Changing CCN Properties of Secondary Organic Aerosol, Including Model Development” – Scot Martin, Harvard

“Measurements of Black Carbon Particles in the ISDAC Program” – Gregory Kok, DMT



# New investigators



“Study of Cloud Processing of Organic Aerosols  
Using Models and CHAPS Data” – Barbara Ervens,  
U Colorado

“Process Models of the Equilibrium Size & State of  
Organic/Inorganic Aerosols for the Development of  
Large Scale Atmospheric Models & the Analysis of  
Field Data” – Anthony Wexler, California – Davis



# New investigators - sorta



“Effect and Terrestrial and Marine Organic Aerosol on Regional and Global Climate: Model Development, Application, and Verification with Satellite Data”  
(joint with CCPP) Nicholas Meskhidze, NC State





# Renewal Awards



- “Growth Rates of Freshly Nucleated Particles” – Peter McMurry, U Minnesota
- “Mechanisms of Formation of Secondary Organic Aerosols and Implications for Global Radiative Forcing” – John Seinfeld, Caltech
- “Laboratory Experiments and Instrument Development for the Study of Atmospheric Aerosols” – Paul Davidovits, Boston College



# Renewal Awards



“Formation of Secondary Organic Aerosols (SOA) via Nitrate Ion Photochemistry In and On Particles” – Barbara Finlayson-Pitts, California-Irvine



# Renewal Awards



“Natural Radionuclides and Isotopic Signatures for Determining Carbonaceous Aerosol Sources, Aerosol Lifetimes, and Washout Processes” – Jeff Gaffney, Arkansas – Little Rock

“Characterizing Aerosol Distributions and Optical Properties Using the NASA Langley Airborne High Spectral Resolution Lidar (HSRL)” – Chris Hostetler, NASA LaRC



# Renewal Awards



- “Secondary Organic Aerosols: Detailed Modeling and Comparison with MILAGRO Observations”  
– Sasha Madronich, NCAR
- “Optical Properties and Mass Measurements of Representative Aerosols” – Suzanne Paulson, UCLA